

## results of BLAST

**BLASTP 2.2.10 [Oct-19-2004]**

**Reference:**

Altschul, Stephen F., Thomas L. Madden, Alejandro A. Schäffer, Jinghui Zhang, Zheng Zhang, Webb Miller, and David J. Lipman (1997), "Gapped BLAST and PSI-BLAST: a new generation of protein database search programs", Nucleic Acids Res. 25:3389-3402.

RID: 1103298200-11486-114210980150.BLASTQ1

**Query=**

(17 letters)

**Database:** All non-redundant GenBank CDS

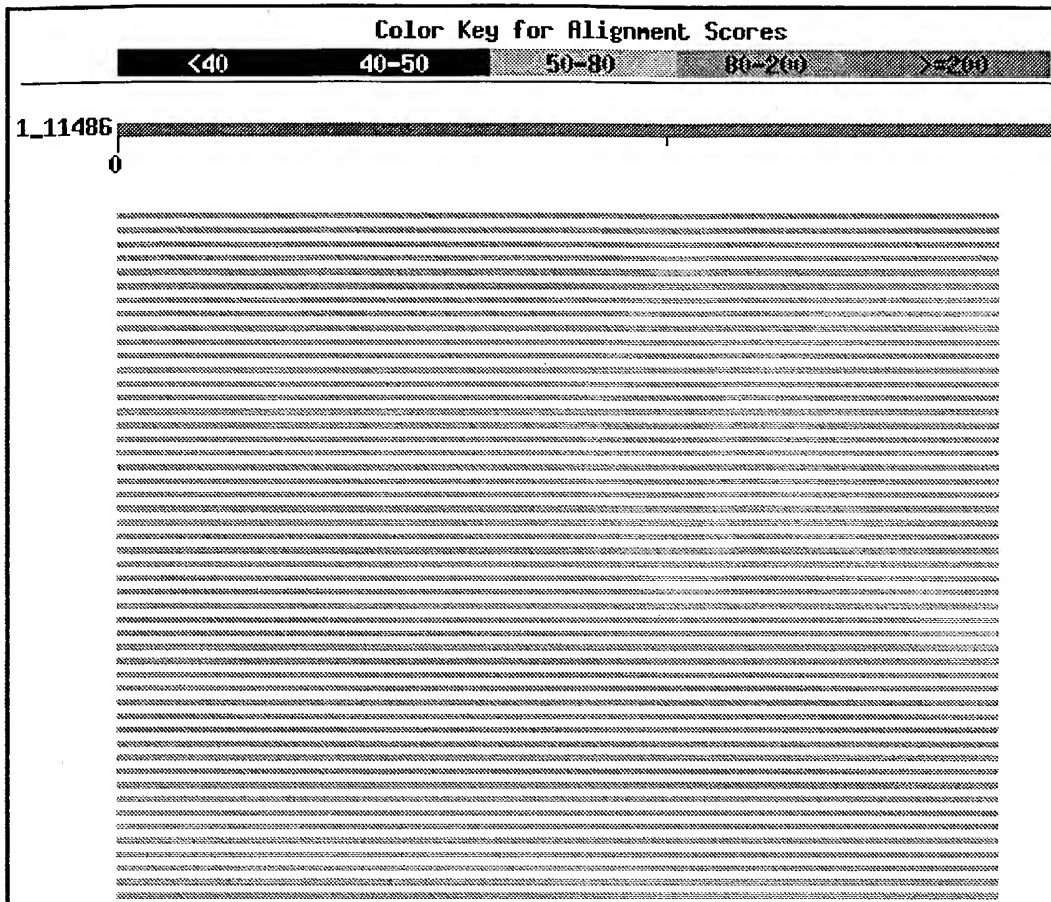
translations+PDB+SwissProt+PIR+PRF excluding environmental samples  
2,247,242 sequences; 758,669,765 total letters

If you have any problems or questions with the results of this search please refer to the **BLAST FAQs**

Taxonomy reports

### **Distribution of 100 Blast Hits on the Query Sequence**

Mouse-over to show defline and scores. Click to show alignments



Sequences producing significant alignments:		Score (bits)	E Value
<u>gi 2326455 emb CAA72801.1 </u>	polyprotein [Hepatitis C virus t...	60	5e-09
<u>gi 44885938 dbj BAD11961.1 </u>	polyprotein [Hepatitis C virus ...	60	5e-09
<u>gi 44885936 dbj BAD11960.1 </u>	polyprotein [Hepatitis C virus ...	60	5e-09
<u>gi 974347 gb AAB40038.1 </u>	core protein [Hepatitis C virus ty...	60	5e-09
<u>gi 4433100 dbj BAA21058.1 </u>	unnamed protein product [Hepatit...	60	5e-09
<u>gi 4433099 dbj BAA21057.1 </u>	unnamed protein product [Hepatit...	60	5e-09
<u>gi 532381 gb AAA21037.1 </u>	polyprotein	60	5e-09
<u>gi 44885934 dbj BAD11959.1 </u>	polyprotein [Hepatitis C virus ...	57	5e-08
<u>gi 3550763 dbj BAA32666.1 </u>	polyprotein [Hepatitis C virus]	56	9e-08
<u>gi 1765887 dbj BAA13625.1 </u>	core, env and part of E2/NS1 [He...	56	9e-08
<u>gi 1765885 dbj BAA13624.1 </u>	core, env and part of E2/NS1 [He...	56	9e-08
<u>gi 1765881 dbj BAA13622.1 </u>	core, env and part of E2/NS1 [He...	56	9e-08
<u>gi 1765873 dbj BAA13618.1 </u>	core, env and part of E2/NS1 [He...	56	9e-08
<u>gi 600265 dbj BAA13617.1 </u>	core, env and part of E2/NS1 [Hep...	56	9e-08
<u>gi 1066618 gb AAC42193.1 </u>	core protein	55	2e-07
<u>gi 20146986 gb AAM09923.1 </u>	polyprotein [Hepatitis C virus]	55	2e-07
<u>gi 20146974 gb AAM09917.1 </u>	polyprotein [Hepatitis C virus]	55	2e-07
<u>gi 20146970 gb AAM09915.1 </u>	polyprotein [Hepatitis C virus]	55	2e-07
<u>gi 20146968 gb AAM09914.1 </u>	polyprotein [Hepatitis C virus] ...	55	2e-07
<u>gi 22135572 gb AAM93266.1 </u>	core protein [Hepatitis C virus]	55	2e-07
<u>gi 22135570 gb AAM93265.1 </u>	core protein [Hepatitis C virus]	55	2e-07
<u>gi 19744440 gb AAL96493.1 </u>	polyprotein [Hepatitis C virus]	55	2e-07
<u>gi 44885956 dbj BAD11970.1 </u>	polyprotein [Hepatitis C virus ...	55	2e-07

<a href="#">gi 1669626 dbj BAA05983.1 </a>	core protein [Hepatitis C virus]	<a href="#">55</a>	2e-07
<a href="#">gi 1246377 dbj BAA09976.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">55</a>	2e-07
<a href="#">gi 1246371 dbj BAA09974.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">55</a>	2e-07
<a href="#">gi 1765879 dbj BAA13621.1 </a>	core, env and part of E2/NS1 [He...	<a href="#">55</a>	2e-07
<a href="#">gi 1765877 dbj BAA13620.1 </a>	core, env and part of E2/NS1 [He...	<a href="#">55</a>	2e-07
<a href="#">gi 1765875 dbj BAA13619.1 </a>	core, env and part of E2/NS1 [He...	<a href="#">55</a>	2e-07
<a href="#">gi 50365966 gb AAT76284.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">54</a>	5e-07
<a href="#">gi 3283982 gb AAC25417.1 </a>	core protein [Hepatitis C virus]	<a href="#">54</a>	5e-07
<a href="#">gi 45160566 gb AAS55343.1 </a>	core protein [Hepatitis C virus]	<a href="#">54</a>	5e-07
<a href="#">gi 44885940 dbj BAD11962.1 </a>	polyprotein [Hepatitis C virus ...]	<a href="#">53</a>	9e-07
<a href="#">gi 52367249 gb AAU45101.1 </a>	core protein [Hepatitis C virus]	<a href="#">52</a>	2e-06
<a href="#">gi 30841356 gb AAP34656.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 20146962 gb AAM09911.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 20146956 gb AAM09908.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 23268513 gb AAN16413.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 23268511 gb AAN16412.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 30090044 gb AAP21074.1 </a>	capsid protein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 14486879 gb AAK63316.1 </a>	polyprotein [Hepatitis C virus] ...	<a href="#">51</a>	3e-06
<a href="#">gi 14486815 gb AAK63284.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 20159557 gb AAM11979.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 46560634 gb AAT00643.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 19879546 gb AAL58626.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 19879470 gb AAL50213.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 7650256 gb AAF65959.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 443893 emb CAA82603.1 </a>	unnamed protein product [Hepatiti...	<a href="#">51</a>	3e-06
<a href="#">gi 27531300 dbj BAC54262.1 </a>	poly protein [Hepatitis C virus...	<a href="#">51</a>	3e-06
<a href="#">gi 21670901 dbj BAC02460.1 </a>	polyprotein [Hepatitis C virus ...]	<a href="#">51</a>	3e-06
<a href="#">gi 21670897 dbj BAC02458.1 </a>	polyprotein [Hepatitis C virus ...]	<a href="#">51</a>	3e-06
<a href="#">gi 45160528 gb AAS55324.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	3e-06
<a href="#">gi 1930120 gb AAB51539.1 </a>	nucleocapsid protein [Hepatitis C...	<a href="#">51</a>	3e-06
<a href="#">gi 1322340 gb AAB00213.1 </a>	core protein	<a href="#">51</a>	3e-06
<a href="#">gi 1181832 gb AAA86907.1 </a>	polyprotein	<a href="#">51</a>	3e-06
<a href="#">gi 40795743 gb AAR91583.1 </a>	core protein [Hepatitis C virus ...]	<a href="#">51</a>	3e-06
<a href="#">gi 532457 gb AAA21075.1 </a>	polyprotein	<a href="#">51</a>	3e-06
<a href="#">gi 329754 gb AAA16311.1 </a>	core protein	<a href="#">51</a>	3e-06
<a href="#">gi 51862061 gb AAU11693.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 51862054 gb AAU11692.1 </a>	core protein [Hepatitis C virus]...	<a href="#">51</a>	4e-06
<a href="#">gi 51861979 gb AAU11683.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 51861941 gb AAU11678.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 51861871 gb AAU11669.1 </a>	core protein [Hepatitis C virus]...	<a href="#">51</a>	4e-06
<a href="#">gi 34494614 emb CAE46587.1 </a>	core protein [Hepatitis C virus...	<a href="#">51</a>	4e-06
<a href="#">gi 38489510 gb AAR21440.1 </a>	polyprotein [Hepatitis C virus] ...	<a href="#">51</a>	4e-06
<a href="#">gi 15529111 gb AAK97744.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 11559469 dbj BAB18814.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 11559463 dbj BAB18811.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 11559451 dbj BAB18805.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 11559449 dbj BAB18804.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 11559447 dbj BAB18803.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 11559441 dbj BAB18800.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 1536992 gb AAC55450.1 </a>	core protein	<a href="#">51</a>	4e-06
<a href="#">gi 45160580 gb AAS55350.1 </a>	core protein [Hepatitis C virus]...	<a href="#">51</a>	4e-06
<a href="#">gi 45160560 gb AAS55340.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 45160408 gb AAS55264.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 3098655 gb AAC15732.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 3098644 gb AAC15727.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 10880664 gb AAG24333.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 913996 gb AAB34375.1 </a>	polyprotein [Hepatitis C virus]	<a href="#">51</a>	4e-06
<a href="#">gi 77094 pir IS18031</a>	genome polyprotein - hepatitis C virus...	<a href="#">51</a>	4e-06
<a href="#">gi 540813 pir PN0677</a>	hypothetical protein 787 - hepatitis ...	<a href="#">51</a>	4e-06
<a href="#">gi 42411917 gb AAS15483.1 </a>	core protein [Hepatitis C virus]	<a href="#">51</a>	4e-06

<u>gi 42411861 gb AAS15455.1 </u>	core protein [Hepatitis C virus]...	<u>51</u>	4e-06
<u>gi 42411853 gb AAS15451.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411777 gb AAS15413.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411775 gb AAS15412.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411773 gb AAS15411.1 </u>	core protein [Hepatitis C virus]...	<u>51</u>	4e-06
<u>gi 42411769 gb AAS15409.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411717 gb AAS15383.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411609 gb AAS15329.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411607 gb AAS15328.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411599 gb AAS15324.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411597 gb AAS15323.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411595 gb AAS15322.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411341 gb AAS15195.1 </u>	core protein [Hepatitis C virus]...	<u>51</u>	4e-06
<u>gi 42411307 gb AAS15178.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411301 gb AAS15175.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411167 gb AAS15108.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06
<u>gi 42411157 gb AAS15103.1 </u>	core protein [Hepatitis C virus]	<u>51</u>	4e-06

### Alignments




☐ >gi|2326455|emb|CAA72801.1| polyprotein [Hepatitis C virus type 6a]  
Length = 3018

Score = 60.4 bits (135), Expect = 5e-09  
Identities = 17/17 (100%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQPQGRHWAQPGY  
Sbjct: 65 IPKARQPQGRHWAQPGY 81

☐ >gi|44885938|dbj|BAD11961.1| polyprotein [Hepatitis C virus type 6a]  
Length = 117

Score = 60.4 bits (135), Expect = 5e-09  
Identities = 17/17 (100%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQPQGRHWAQPGY  
Sbjct: 65 IPKARQPQGRHWAQPGY 81

☐ >gi|44885936|dbj|BAD11960.1| polyprotein [Hepatitis C virus type 6a]  
gi|44885932|dbj|BAD11958.1| polyprotein [Hepatitis C virus type 6a]  
Length = 117

Score = 60.4 bits (135), Expect = 5e-09  
Identities = 17/17 (100%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQPQGRHWAQPGY  
Sbjct: 65 IPKARQPQGRHWAQPGY 81

☐ >gi|974347|gb|AAB40038.1| core protein [Hepatitis C virus type 6]  
Length = 191

Score = 60.4 bits (135), Expect = 5e-09  
Identities = 17/17 (100%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQPQGRHWAQPGY  
Sbjct: 65 IPKARQPQGRHWAQPGY 81

☐ >gi|4433100|dbj|BAA21058.1| unnamed protein product [Hepatitis C virus]  
Length = 109

Score = 60.4 bits (135), Expect = 5e-09  
Identities = 17/17 (100%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQPQGRHWAQPGY  
Sbjct: 65 IPKARQPQGRHWAQPGY 81

☐ >gi|4433099|dbj|BAA21057.1| unnamed protein product [Hepatitis C virus]  
Length = 109

Score = 60.4 bits (135), Expect = 5e-09  
Identities = 17/17 (100%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQPQGRHWAQPGY  
Sbjct: 65 IPKARQPQGRHWAQPGY 81

☐ >gi|532381|gb|AAA21037.1| polyprotein  
Length = 191

Score = 60.4 bits (135), Expect = 5e-09  
Identities = 17/17 (100%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQPQGRHWAQPGY  
Sbjct: 65 IPKARQPQGRHWAQPGY 81

☐ >gi|44885934|dbj|BAD11959.1| polyprotein [Hepatitis C virus type 6a]  
Length = 117

Score = 57.1 bits (127), Expect = 5e-08  
Identities = 16/17 (94%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17

IPKARQPQG+HWAQPGY  
Sbjct: 65 IPKARQPQGHWAQPGY 81

☐ >[gi|3550763|dbj|BAA32666.1|](#) polyprotein [Hepatitis C virus]  
Length = 3016

Score = 56.2 bits (125), Expect = 9e-08  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQ QGRHWAQPGY  
Sbjct: 65 IPKARQSQGRHWAQPGY 81

☐ >[gi|1765887|dbj|BAA13625.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]  
Length = 414

Score = 56.2 bits (125), Expect = 9e-08  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQ QGRHWAQPGY  
Sbjct: 65 IPKARQSQGRHWAQPGY 81

☐ >[gi|1765885|dbj|BAA13624.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]  
Length = 414

Score = 56.2 bits (125), Expect = 9e-08  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQ QGRHWAQPGY  
Sbjct: 65 IPKARQSQGRHWAQPGY 81

☐ >[gi|1765881|dbj|BAA13622.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]  
Length = 414

Score = 56.2 bits (125), Expect = 9e-08  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQ QGRHWAQPGY  
Sbjct: 65 IPKARQSQGRHWAQPGY 81

☐ >[gi|1765873|dbj|BAA13618.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]  
Length = 414

Score = 56.2 bits (125), Expect = 9e-08  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQ QGRHWAQPGY  
Sbjct: 65 IPKARQSQGRHWAQPGY 81

☐ >[gi|600265|dbj|BAA13617.1|](#) core, env and part of E2/NS1 [Hepatitis C virus]  
Length = 414

Score = 56.2 bits (125), Expect = 9e-08  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQ QGRHWAQPGY  
Sbjct: 65 IPKARQSQGRHWAQPGY 81

☐ >[gi|1066618|gb|AAC42193.1|](#) core protein  
Length = 319

Score = 55.4 bits (123), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQ QGRHWAQPGY  
Sbjct: 65 IPKARQTQGRHWAQPGY 81

☐ >[gi|20146986|gb|AAM09923.1|](#) polyprotein [Hepatitis C virus]  
Length = 115

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 54 IPKARQPTGRHWAQPGY 70

☐ >[gi|20146974|gb|AAM09917.1|](#) polyprotein [Hepatitis C virus]  
Length = 115

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 54 IPKARQPTGRHWAQPGY 70

☐ >[gi|20146970|gb|AAM09915.1|](#) polyprotein [Hepatitis C virus]  
Length = 115

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 54 IPKARQPTGRHWAQPGY 70

☐ >[gi|20146968|gb|AAM09914.1|](#) polyprotein [Hepatitis C virus]  
[gi|19744438|gb|AAL96492.1|](#) polyprotein [Hepatitis C virus]  
Length = 115

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 54 IPKARQPTGRHWAQPGY 70

☐ >[gi|22135572|gb|AAM93266.1|](#) core protein [Hepatitis C virus]  
Length = 119

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 60 IPKARQPTGRHWAQPGY 76

☐ >[gi|22135570|gb|AAM93265.1|](#) core protein [Hepatitis C virus]  
Length = 119

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 60 IPKARQPTGRHWAQPGY 76

☐ >[gi|19744440|gb|AAL96493.1|](#) polyprotein [Hepatitis C virus]  
Length = 115

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 54 IPKARQPTGRHWAQPGY 70



☐ >gi|44885956|dbj|BAD11970.1| polyprotein [Hepatitis C virus type 8a]  
Length = 117

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 65 IPKARQPTGRHWAQPGY 81

☐ >gi|1669626|dbj|BAA05983.1| core protein [Hepatitis C virus]  
Length = 83

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 56 IPKARQPTGRHWAQPGY 72

☐ >gi|1246377|dbj|BAA09976.1| polyprotein [Hepatitis C virus]  
Length = 191

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 65 IPKARQPTGRHWAQPGY 81

☐ >gi|1246371|dbj|BAA09974.1| polyprotein [Hepatitis C virus]  
Length = 191

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 65 IPKARQPTGRHWAQPGY 81

☐ >gi|1765879|dbj|BAA13621.1| core, env and part of E2/NS1 [Hepatitis C virus]  
Length = 414

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 65 IPKARQPTGRHWAQPGY 81

☐ >gi|1765877|dbj|BAA13620.1| core, env and part of E2/NS1 [Hepatitis C virus]  
Length = 414

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 65 IPKARQPTGRHWAQPGY 81

☐ >gi|1765875|dbj|BAA13619.1| core, env and part of E2/NS1 [Hepatitis C virus]  
Length = 414

Score = 54.9 bits (122), Expect = 2e-07  
Identities = 16/17 (94%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP GRHWAQPGY  
Sbjct: 65 IPKARQPTGRHWAQPGY 81

☐ >gi|50365966|gb|AAT76284.1| polyprotein [Hepatitis C virus]  
Length = 199

Score = 53.7 bits (119), Expect = 5e-07  
Identities = 15/17 (88%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR+WAQPGY  
Sbjct: 67 IPKARQPEGRNWAQPGY 83

☐ >gi|3283982|gb|AAC25417.1| core protein [Hepatitis C virus]  
Length = 191

Score = 53.7 bits (119), Expect = 5e-07  
Identities = 15/17 (88%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR+WAQPGY  
Sbjct: 65 IPKARQPEGRNWAQPGY 81

☐ >gi|45160566|gb|AAS55343.1| core protein [Hepatitis C virus]  
Length = 72

Score = 53.7 bits (119), Expect = 5e-07  
Identities = 15/17 (88%), Positives = 17/17 (100%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR+WAQPGY

Sbjct: 17 IPKARQPQGRHWAQPGY 33

☐ >[gi|44885940|dbj|BAD11962.1|](#) polyprotein [Hepatitis C virus type 6a]  
Length = 117

Score = 52.8 bits (117), Expect = 9e-07  
Identities = 15/17 (88%), Positives = 15/17 (88%)

Query: 1 IPKARQPQGRHWAQPGY 17

IPK RQ QGRHWAQPGY

Sbjct: 65 IPKVRQSQGRHWAQPGY 81

☐ >[gi|52367249|gb|AAU45101.1|](#) core protein [Hepatitis C virus]  
Length = 191

Score = 51.5 bits (114), Expect = 2e-06  
Identities = 15/17 (88%), Positives = 15/17 (88%)

Query: 1 IPKARQPQGRHWAQPGY 17

IPKARQP GRHW QPGY

Sbjct: 65 IPKARQPTGRHWGQPGY 81

☐ >[gi|30841356|gb|AAP34656.1|](#) core protein [Hepatitis C virus]  
Length = 137

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17

IPKARQP+GR WAQPGY

Sbjct: 32 IPKARQPEGRSWAQPGY 48

☐ >[gi|20146962|gb|AAM09911.1|](#) polyprotein [Hepatitis C virus]  
Length = 118

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17

IPKARQP+GR WAQPGY

Sbjct: 58 IPKARQPEGRVWAQPGY 74

☐ >[gi|20146956|gb|AAM09908.1|](#) polyprotein [Hepatitis C virus]  
Length = 119

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 59 IPKARQPEGRVWAQPGY 75

☐ >gi|23268513|gb|AAN16413.1| polyprotein [Hepatitis C virus]  
Length = 110

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 48 IPKARQPEGRVWAQPGY 64

☐ >gi|23268511|gb|AAN16412.1| polyprotein [Hepatitis C virus]  
Length = 110

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 48 IPKARQPEGRVWAQPGY 64

☐ >gi|30090044|gb|AAP21074.1| capsid protein [Hepatitis C virus]  
Length = 158

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 64 IPKARQPEGRSWAQPGY 80

☐ >gi|14486879|gb|AAK63316.1| polyprotein [Hepatitis C virus]  
gi|14486809|gb|AAK63281.1| polyprotein [Hepatitis C virus]  
Length = 85

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 54 IPKARQPEGRSWAQPGY 70

☐ >gi|14486815|gb|AAK63284.1| polyprotein [Hepatitis C virus]  
Length = 85

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 54 IPKARQPEGRSWAQPGY 70

☐ >[gi|20159557|gb|AAM11979.1|](#) core protein [Hepatitis C virus]  
Length = 56

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 12 IPKARQPEGRVWAQPGY 28

☐ >[gi|46560634|gb|AAT00643.1|](#) polyprotein [Hepatitis C virus]  
Length = 3010

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 65 IPKARQPEGRVWAQPGY 81

☐ >[gi|19879546|gb|AAL58626.1|](#) core protein [Hepatitis C virus]  
Length = 100

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 65 IPKARQPEGRSWAQPGY 81

☐ >[gi|19879470|gb|AAL50213.1|](#) polyprotein [Hepatitis C virus]  
Length = 1117

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 65 IPKARQPEGRVWAQPGY 81

☐ >[gi|7650256|gb|AAF65959.1|](#) polyprotein [Hepatitis C virus]

Length = 3010

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 65 IPKARQPEGRSWAQPGY 81

☐ >[gi|443893|emb|CAA82603.1|](#) unnamed protein product [Hepatitis C virus]  
[gi|540836|pir||S41362](#) genome polyprotein - hepatitis C virus (genotype 4, N1)  
(fragment)  
[gi|1581050|prf||2116349AA](#) core protein  
Length = 114

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 65 IPKARQPEGRSWAQPGY 81

☐ >[gi|27531300|dbj|BAC54262.1|](#) poly protein [Hepatitis C virus type 1b]  
Length = 191

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 65 IPKARQPEGRSWAQPGY 81

☐ >[gi|21670901|dbj|BAC02460.1|](#) polyprotein [Hepatitis C virus type 1b]  
Length = 191

Score = 51.1 bits (113), Expect = 3e-06  
Identities = 15/17 (88%), Positives = 16/17 (94%)

Query: 1 IPKARQPQGRHWAQPGY 17  
IPKARQP+GR WAQPGY  
Sbjct: 65 IPKARQPEGRVWAQPGY 81

Get selected sequences

Select all

Deselect all

Database: All non-redundant GenBank CDS  
translations+PDB+SwissProt+PIR+PRF excluding environmental samples  
Posted date: Dec 16, 2004 7:30 AM  
Number of letters in database: 758,669,765

Number of sequences in database: 2,247,242

Lambda	K	H
0.350	0.278	2.04

Gapped

Lambda	K	H
0.294	0.110	0.610

Matrix: PAM30

Gap Penalties: Existence: 9, Extension: 1

Number of Hits to DB: 8,033,619

Number of Sequences: 2247242

Number of extensions: 139311

Number of successful extensions: 1718

Number of sequences better than 20000.0: 1711

Number of HSP's better than 20000.0 without gapping: 1711

Number of HSP's successfully gapped in prelim test: 0

Number of HSP's that attempted gapping in prelim test: 0

Number of HSP's gapped (non-prelim): 1716

length of query: 17

length of database: 758,669,765

effective HSP length: 7

effective length of query: 10

effective length of database: 742,939,071

effective search space: 7429390710

effective search space used: 7429390710

T: 11

A: 40

X1: 14 ( 7.1 bits)

X2: 35 (14.8 bits)

X3: 58 (24.6 bits)

S1: 37 (20.5 bits)

S2: 37 (18.9 bits)